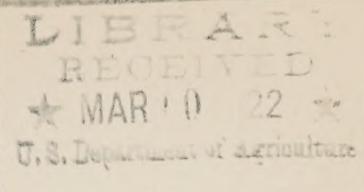


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PUBLICATIONS OF THE BUREAU OF ENTOMOLOGY, U. S. DEPARTMENT OF AGRICULTURE,
AVAILABLE FOR FREE DISTRIBUTION.

FARMERS' BULLETINS.

- 440. Spraying peaches for control of brown-rot, scab, and curculio.
- 444. Remedies and preventives against mosquitoes.
- 447. Bees.
- 450. Some facts about malaria.
- 547. The yellow-fever mosquito.
- 606. Collection and preservation of insects and other material for use in the study of agriculture.
- 627. The house centipede.
- 636. The chalcis fly in alfalfa seed.
- 637. The grasshopper problem and alfalfa culture.
- 650. The San Jose scale and its control.
- 658. Cockroaches.
- 662. The apple-tree tent caterpillar.
- 668. The squash-vine borer.
- 674. Control of the citrus thrips in California and Arizona.
- 675. The roundheaded apple-tree borer.
- 691. Grasshoppers and their control on sugar beets and truck crops.
- 695. Outdoor wintering of bees.
- 699. Hydrocyanic-acid gas against household insects.
- 701. The bagworm, an injurious shade-tree insect.
- 705. The catalpa sphinx.
- 708. The leopard moth: A dangerous imported enemy of shade trees.
- 721. The rose-chafer.
- 722. The leaf blister mite of pear and apple.
- 723. The oyster-shell scale and the scurfy scale.
- 725. Wireworms destructive to cereal and forage crops.
- 731. The true army worm and its control.
- 733. The corn and cotton wireworm in its relation to cereal and forage crops, with control measures.
- 734. Flytraps and their operation.
- 737. The clover leafhopper and its control in the Central States.
- 739. Cutworms and their control in corn and other cereal crops.
- 740. House ants: Kinds and methods of control.
- 747. Grasshoppers and their control with relation to cereal and forage crops.
- 752. The fall army worm or "grass worm" and its control.
- 754. The bedbug.
- 762. The false chinch bug and measures for controlling it.
- 763. Orchard barkbeetles and pinholes borers and how to control them.
- 766. The common cabbage worm.
- 778. Powder-post damage by Lyctus beetles to seasoned hardwood.
- 789. Mushroom pests and how to control them.
- 799. Carbon disulphide as an insecticide.
- 801. Mites and lice on poultry.
- 819. The tobacco budworm and its control.
- 831. The red spider on cotton and how to control it.
- 835. How to detect outbreaks of insects and save the grain crops.

- 837. The asparagus beetles and their control.
- 843. The important pecan insects and their control.
- 845. The gipsy moth and brown-tail moth and their control.
- 846. The tobacco beetle and how to prevent damage by it.
- 851. The house fly.
- 856. Control of diseases and insect enemies of the home vegetable garden.
- 857. Screw-worms and other maggots affecting animals.
- 860. Cranberry insect problems and suggestions for solving them.
- 862. Control of the citrus mealybug in California.
- 867. Tobacco hornworm insecticide.
- 868. Increasing the potato crop by spraying.
- 872. The bollworm or corn earworm.
- 875. The rough-headed corn stalk-beetle.
- 880. Fumigation of ornamental greenhouse plants with hydrocyanic-acid gas.
- 890. How insects affect the cotton plant and means of combating them.
- 891. The corn root-aphis and methods of controlling it.
- 897. Fleas and their control.
- 902. The silverfish: An injurious household insect.
- 908. Information for fruit growers about insecticides, spraying apparatus, and important insect pests.
- 914. Control of the melon aphis.
- 923. Fumigation of citrus trees.
- 928. Control of the Argentine ant in orange groves.
- 933. Spraying for the control of insects and mites attacking citrus trees in Florida.
- 940. White grubs.
- 944. Controlling the garden webworm in alfalfa fields.
- 950. The southern corn rootworm and farm practices to control it.
- 959. The spotted garden slug.
- 961. Transferring bees to modern hives.
- 971. The control of the clover-flower midge.
- 975. The control of European foulbrood.
- 982. Control of the green clover worm in alfalfa fields.
- 1003. How to control billbugs destructive to cereal and forage crops.
- 1006. The jointworm and its control.
- 1007. Control of the onion thrips.
- 1011. The woolly white fly in Florida citrus groves.
- 1012. Preparation of bees for outdoor wintering.
- 1014. Wintering bees in cellars.
- 1020. The sweet-potato weevil and its control.
- 1025. The larger corn stalk-borer.
- 1029. Conserving corn from weevils in the Gulf Coast States.
- 1037. White ants as pests in the United States and methods of preventing their damage.
- 1038. The striped cucumber beetle and its control.
- 1039. Commercial comb-honey production.
- 1046. The European corn borer: A menace to the country's corn crop.
- 1056. Controlling important fungous and insect enemies of the pear in the humid sections of the Pacific Northwest.
- 1061. Harlequin cabbage bug and its control.
- 1065. The flatheaded apple-tree borer.
- 1070. The fowl tick and how premises may be freed from it.
- 1074. The bean ladybird and its control.

- 1076. California oakworm.
- 1083. The Hessian fly and how to prevent losses from it.
- 1084. Control of American foulbrood.
- 1086. How insects affect the rice crop.
- 1094. The alfalfa caterpillar.
- 1097. The stable fly: How to prevent its annoyance and its losses to live stock.
- 1098. Dusting machinery for cotton boll weevil control.
- 1101. The Argentine ant as a household pest.
- 1104. Book-lice or psocids: Annoying household pests.
- 1128. Control of aphids injurious to orchard fruits, currant, gooseberry, and grape.
- 1140. Grasshopper control in the Pacific States.
- 1154. Aspen borer and how to control it.
- 1156. Angoumois grain moth.
- 1169. Insects injurious to deciduous shade trees and their control.
- 1185. Spraying for the alfalfa weevil.
- 1188. The southern pine beetle: A menace to the pine timber of the Southern States.
- 1193. The beet leaf-beetle and its control.
- 1197. Protection of mesquite cordwood and posts from borers.
- 1198. Swarm control.
- 1206. The corn earworm as an enemy of vetch.
- 1215. Beekeeping in the clover region. (In press)
- 1216. Beekeeping in the buckwheat region. (In press)
- 1217. The green-bug or spring grain-aphis: How to prevent its periodical outbreaks.
- 1220. Insect and fungous enemies of the grape.
- 1222. Beekeeping in the tulip-tree region. (In press).
- 1223. The chinch bug and its control. (In press)
- 1225. The potato leafhopper and its control.
- 1246. The peach borer.
- 1252. Sawflies injurious to rose foliage. (In press)
- 1257. Insects injurious to the mango in Florida and how to combat them. (In press)
- 1258. Webworms injurious to cereal and forage crops and their control. (In press)
- 1259. A sawfly injurious to young pines. (In press)
- 1260. Stored grain pests. (In press)
- 1261. The avocado: Its insect enemies and how to combat them. (In press)
- 1262. The boll weevil problem: Methods of reducing damage. (In press)
- 1270. The more important apple insects. (In press)

DEPARTMENT BULLETINS.

Most of these are professional papers intended for the use of entomologists.

- *84. The western corn root-worm.
- *14. The migratory habit of housefly larvae as indicating a favorable remedial measure: An account of progress.
- *59. The tobacco splitworm.
- 93. The temperature of the honeybee cluster in winter.
- 95. Insect damage to the cones and seeds of Pacific Coast conifers.
- 100. Walnutsaphides in California.
- 111. The Sequoia pitch moth: A menace to pine in western Montana.
- 113. The lesser bud-moth.
- *124. The alfalfa caterpillar.
- *131. Repellents for protecting animals from the attacks of flies.
- 134. Citrus fruit insects in Mediterranean countries.
- 161. The Mediterranean fruit fly in Bermuda.
- 170. The European pine-shoot moth.
- *173. The life history and habits of the pear thrips in California.
- *184. The huisache girdler.
- *233. Relation of the Arizona wild cotton weevil to cotton planting in the arid West.
- 245. Further experiments in the destruction of fly larvae in horse manure.
- *264. The violet rove beetle.
- *295. The Zimmerman pine moth.
- *382. Cotton-boll weevil control in the Mississippi delta, with special reference to square picking and weevil picking.
- 443. The New Mexico range caterpillar and its control.
- *491. The melon fly in Hawaii.
- 550. Control of the grape-berry moth in the Erie-Chautauqua grape belt.
- *564. Collection of weevils and infested squares as a means of control of the cotton-boll weevil in the Mississippi delta.
- 571. The pecan-leaf case-bearer.
- 597. Some biological and control studies of *Gastrophilus haemorrhoidalis* and other bots of horses.
- 640. The Mediterranean fruit fly.
- 703. Miscellaneous truck-crop insects in Louisiana. I. Insects injurious to globe artichoke. II. The granulated cutworm. III. Experiments in controlling the tomato fruit worm with arsenicals.
- 723. The pink bollworm with special reference to steps taken by the Department of Agriculture to prevent its establishment in the United States.
- 731. Recent experimental work in poisoning cotton boll weevils.
- 737. The tobacco beetle: An important pest in tobacco products.
- *766. A study of *Compsilura concinnata*, an imported tachinid parasite of the gipsy moth and the brown-tail moth.
- 787. Protection from the locust borer.
- 796. Use of toxic gases as a possible means of control of the peach-tree borer.
- 808. Studies on the life-history and habits of the jointworm flies of the genus *Harmolita*, with recommendations for control.

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- *812. The clover and alfalfa seed chalcis-fly.
- 826. Generic classification of the hemipterous family Aphididae.
- *833. Chrysanthemum midge.
- 838. Cypress bark scale.
- 841. The western grass-stem sawfly.
- 847. Roundheaded apple-tree borer: Its life history and control.
- 872. Insect control in flour mills.
- *875. Cotton boll weevil control by the use of poison.
- 885. Spotted apple-tree borer.
- 891. The green June beetle. (in press)
- 892. The beet leaf-beetle.
- 893. Experiments on the toxic action of certain gases on insects, seeds, and fungi.
- 899. Gipsy-moth tree-banding material: How to make, use, and apply it.
- 902. The western cabbage flea-beetle.
- 914. The red-banded leaf-roller.
- 918. Report on investigations of the pink bollworm of cotton in Mexico.
- 926. Studies in the biology of the Mexican cotton boll weevil in short-staple, upland, long-staple upland, and Sea Island cottons.
- 938. Effect of nicotine sulphate as an ovicide and larvicide on the codling moth and three other insects.
- 959. Experiments and remedial suggestions for the control of the codling moth in the Grand Valley of Colorado.
- 964. Garden flea-hoppers in alfalfa.
- 965. Control of the Argentine ant in California citrus orchards.
- 966. The European horse-radish webworm.
- 967. Results of work on blister beetles in Kansas.
- 986. Studies on the biology and control of chiggers.
- 992. Walnut husk-maggot.
- 1008. Rate of multiplication of the Hessian fly.
- 1016. Bionomics of the chinch bug.
- 1028. Apanteles melanoscelus, an imported parasite of the gipsy moth. (In press)
- 1032. The Blackhead Fireworm of Cranberry on the Pacific Coast. (In press)
- 1035. The red spider on the avocado.
- 1040. Control of the Citrophilous mealybug. (In press)
- 1051. Red Cedar Chests as Protectors Against Moth Damage. (In press)
- 1066. Curculios that attack the young fruits and shoots of walnut and hickory. (In press)

DEPARTMENT CIRCULARS.

- 162. Some rules for poisoning the cotton boll weevil.
- 167. The Satin moth: An introduced enemy of poplars and willows.
- 172. The range crane-fly in California.
- 201. Eradication of the sweet-potato weevil in Florida.
- 210. Dispersion of the boll weevil in 1921.
- 213. Eradication of lice on pigeons. (In press).
- 216. Controlling the curculio, brown-rot, and scab in the peach belt of Georgia.
(In press)

ENTOMOLOGY BULLETINS.

(Discontinued in 1914.)

- *85, Part II. The slender seed-corn ground-beetle.
- *85, Part III. The clover-root curculio.
- **95, Part II. The maize billbug.

ENTOMOLOGY TECHNICAL SERIES.

(Discontinued in 1914.)

- *19. Contents and Index.
- *23, Part I. Some new California and Georgia Thysanoptera.
- *24. The life history of the alder blight aphis.
- *25, Part II. The yellow clover aphis.
- *27, Part II. Classification of the Aleyrodidae, Part II.
- *27. Contents and Index.

ENTOMOLOGY CIRCULARS.

(Discontinued in 1914.)

- *50. The white ant. (Superseded by Farmers' Bulletin 1037.)
- *87. The Colorado potato beetle.
- *101. The apple maggot or "railroad worm."
- *123. Methods of controlling tobacco insects.
- *131. How to control the pear thrips.
- *158. The clover mite.
- *168. Spraying for white flies in Florida. (Superseded by Farmers' Bulletin 933.)
- *173. Arsenate of lead as an insecticide against the tobacco hornworms. (Superseded by Farmers' Bulletin 867.)

*Unnumbered. The pink bollworm. 1914.

REPORTS, OFFICE OF THE SECRETARY.

(Technical.)

- *99. Classification of the Cryphalinae, with descriptions of new genera and species.
- *101. The woolly apple aphis.
- *102. Descriptions of some weevils reared from cotton in Peru.
- *107. Larvae of the Prioninae.

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CIRCULARS, OFFICE OF THE SECRETARY.

- *51. The Hessian fly situation in 1915.
- *55. The spring grain-aphis or "greenbug in the Southwest and the possibilities of an outbreak in 1916.
- *61. Important insects which may affect the health of man or animals engaged in military operations.

Yearbook Separates.

- *622. Practical tree surgery.
- *653. Edible snails.
- *704. The practical use of the enemies of injurious insects.
- *706. Suppression of the gipsy and brown-tail moths and its value to States not infested.

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